

INTERNATIONAL SEARCH REPORT

GB2004/001256

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61K31/205 A23L1/305

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, FSTA, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 680 945 A (OMEARA PTY LTD) 8 November 1995 (1995-11-08) claims 1,2,4,8,10; examples 1-7 page 2, line 39 - page 3, line 47 page 4, lines 36-51 ----- -/--	1-66

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

30 June 2004

Date of mailing of the international search report

12/07/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>GROSS C J ET AL: "Effect of development and nutritional state on the uptake, metabolism and release of free and acetyl-L-carnitine by the rodent small intestine." BIOCHIMICA ET BIOPHYSICA ACTA. 3 NOV 1993, vol. 1170, no. 3, 3 November 1993 (1993-11-03), pages 265-274, XP008032228 ISSN: 0006-3002 page 265, paragraph 1 - page 266, paragraphs 1,6,7 tables 1-3 page 268, paragraph 1 - page 270, paragraph 3 page 272, paragraph 3 - page 273, paragraphs 2,4,5</p>	1-22, 42-62
X	<p>BOHLES H ET AL: "Improved N-retention during L-carnitine-supplemented total parenteral nutrition." JPEN. JOURNAL OF PARENTERAL AND ENTERAL NUTRITION. 1984 JAN-FEB, vol. 8, no. 1, January 1984 (1984-01), pages 9-13, XP008032205 ISSN: 0148-6071 page 9, paragraphs 1,2,5 page 11, paragraphs 3,6,8 - page 12, paragraph 2</p>	1-22, 42-66
X	<p>GREENWOOD R H ET AL: "Effects of L-carnitine on nitrogen retention and blood metabolites of growing steers and performance of finishing steers." JOURNAL OF ANIMAL SCIENCE. JAN 2001, vol. 79, no. 1, January 2001 (2001-01), pages 254-260, XP002286196 ISSN: 0021-8812 page 254, paragraphs 1,4 page 256, paragraph 5 page 257, paragraphs 2,4,6 page 259, paragraph 5 - page 260, paragraphs 1,3 tables 1,2</p>	1-22, 42-66
	<p>----- -/--</p>	

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>LACOUNT D W ET AL: "Responses of dairy cows during early lactation to ruminal or abomasal administration of L-carnitine." August 1995 (1995-08), JOURNAL OF DAIRY SCIENCE. AUG 1995, VOL. 78, NR. 8, PAGE(S) 1824 - 1836 , XP002286406 ISSN: 0022-0302 page 1824, paragraph 1 page 1825, paragraph 3 table 1 page 1827, paragraph 3-5 page 1828, paragraph 3 - page 1829, paragraph 2 page 1835, paragraph 2</p>	1-22, 42-66
X	<p>LACOUNT D W ET AL: "Dose response of dairy cows to abomasal administration of four amounts of L-carnitine." April 1996 (1996-04), JOURNAL OF DAIRY SCIENCE. APR 1996, VOL. 79, NR. 4, PAGE(S) 591 - 602 , XP002286407 ISSN: 0022-0302 page 591, paragraph 3 page 593, paragraph 3 page 594, paragraph 3 page 596, paragraph 3 page 597, paragraphs 3,4 page 601, paragraph 2 tables 1,2,4,7</p>	1-22, 42-66
X	<p>LACOUNT D W ET AL: "Ruminal degradation and dose response of dairy cows to dietary L-carnitine." February 1996 (1996-02), JOURNAL OF DAIRY SCIENCE. FEB 1996, VOL. 79, NR. 2, PAGE(S) 260 - 269 , XP002286408 ISSN: 0022-0302 page 260, paragraphs 1,2,4 - page 261, paragraph 2 table 1 page 262, paragraph 2 page 263, paragraphs 4,5 page 267, paragraph 3</p>	1-22, 42-66
X	<p>WO 01/95915 A (SIGMA TAU HEALTHSCIENCE SPA ; POLA PIETRO (IT)) 20 December 2001 (2001-12-20) claims 1,3,9-14 page 1, paragraph 1 - page 2, paragraph 1 page 6, paragraph 3 - page 9, paragraph 1</p>	1-41

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PCT/GB2004/001256

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 42-66 (partially)
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(v) PCT - Presentation of information
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☒ Claims Nos.: 1-9, 23-28, 42-44, 47-49
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims Nos.: 42-66 (partially)

Rule 39.1(v) PCT - Presentation of information

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box II.2

Claims Nos.: 1-9, 23-28, 42-44, 47-49

Claims 1-9, 23-28, 42-44, 47-49 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved, which merely amounts to a statement of the underlying problem, without providing the technical features necessary for achieving this result. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the agents comprising carbohydrates, amino acids and proteins as disclosed in page 4 lines 1-2, page 5 lines 15-18, page 7 lines 19-22, claim 10.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0680945	A	08-11-1995	AU 1780395 A	09-11-1995
			EP 0680945 A2	08-11-1995
			ZA 9504224 A	22-01-1996
			JP 8333313 A	17-12-1996
WO 0195915	A	20-12-2001	IT RM20000323 A1	14-12-2001
			AT 265216 T	15-05-2004
			AU 7448701 A	24-12-2001
			CA 2381339 A1	20-12-2001
			CN 1436166 T	13-08-2003
			CZ 20020366 A3	17-07-2002
			DE 60103055 D1	03-06-2004
			EP 1292312 A1	19-03-2003
			HU 0202496 A2	28-11-2002
			WO 0195915 A1	20-12-2001
			NO 20020731 A	11-04-2002
			PL 352578 A1	25-08-2003
			SK 2102002 A3	09-05-2002
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			US 2003108537 A1	12-06-2003